

In the claims:

1. A fault tolerant computer having a disk multiplexing mechanism which multiplexes a plurality of storage devices and an access path multiplexing mechanism which sets and multiplexes a plurality of access paths for said plurality of storage devices,  
5 comprising:

a disk management mechanism which inputs, when a fault such as a failure of said storage device occurs, physical position information of said storage device and operation contents related to the storage device in  
10 question to instruct said disk multiplexing mechanism on restoration operation including cut-off and integration operation of said storage device.

2. The fault tolerant computer as set forth in claim 1, wherein

said disk management mechanism includes  
a data base which stores said physical position  
5 information of said storage device and information about an access path to said storage device so as to correspond with each other for each said storage device.

3. The fault tolerant computer as set forth in claim 2, wherein

said disk management mechanism sends

said access path information corresponding to  
5 said physical position information obtained from said  
data base together with said operation contents to said  
disk multiplexing mechanism to instruct on restoration  
operation including cut-off and integration operation of  
said storage device.

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4. The fault tolerant computer as set forth in claim  
2, further comprising:

first access element which sends said access path  
information corresponding to said physical position  
5 information obtained from said data base to said access  
path multiplexing mechanism to receive, from said access  
path multiplexing mechanism which manages said access  
path information, a virtual access path served for said  
disk multiplexing mechanism to recognize said storage  
10 device, which is a virtual access path obtained by  
bundling said plurality of access paths into one, and

second access element which sends path  
information composed of said virtual access path  
received by said first access element and said operation  
15 contents to said disk multiplexing mechanism.

5. The fault tolerant computer as set forth in claim  
2, wherein

said disk management mechanism includes  
interface element which receives input of

5        physical position information of said storage device and  
operation contents related to the storage device in  
question, as well as receives operation results of said  
operation contents from said disk multiplexing mechanism.

6.        The fault tolerant computer as set forth in claim  
2, further comprising:

             first access element which sends said access path  
information corresponding to said physical position  
5        information obtained from said data base to said access  
path multiplexing mechanism to receive, from said access  
path multiplexing mechanism which manages said access  
path information, a virtual access path served for said  
disk multiplexing mechanism to recognize said storage  
10        device, which is a virtual access path obtained by  
bundling said plurality of access paths into one, and

             second access element which sends path  
information composed of said virtual access path  
received by said first access element and said operation  
15        contents to said disk multiplexing mechanism, wherein

             said disk management mechanism includes  
             interface element which receives input of  
physical position information of said storage device and  
operation contents related to the storage device in  
20        question, as well as receives operation results of said  
operation contents from said disk multiplexing mechanism.

7. A disk management mechanism of a fault tolerant computer having a disk multiplexing mechanism which multiplexes a plurality of storage devices and an access path multiplexing mechanism which sets and multiplexes a plurality of access paths for said plurality of storage devices, wherein

when a fault such as a failure of said storage device occurs, physical position information of said storage device and operation contents related to the storage device in question are input to instruct said disk multiplexing mechanism on restoration operation including cut-off and integration operation of said storage device.

8. The disk management mechanism of a fault tolerant computer as set forth in claim 7, including

a data base which stores said physical position information of said storage device and information about an access path to said storage device so as to correspond with each other for each said storage device.

9. The disk management mechanism of a fault tolerant computer as set forth in claim 8, wherein

said access path information corresponding to said physical position information obtained from said data base is sent together with said operation contents to said disk multiplexing mechanism to instruct on

restoration operation including cut-off and integration operation of said storage device.

10. The disk management mechanism of a fault tolerant computer as set forth in claim 8, further comprising:

first access element which sends said access path information corresponding to said physical position  
5 information obtained from said data base to said access path multiplexing mechanism to receive, from said access path multiplexing mechanism which manages said access path information, a virtual access path served for said disk multiplexing mechanism to recognize said storage  
10 device, which is a virtual access path obtained by bundling said plurality of access paths into one, and  
second access element which sends path information composed of said virtual access path received by said first access element and said operation  
15 contents to said disk multiplexing mechanism.

11. The disk management mechanism of a fault tolerant computer as set forth in claim 8, further comprising

interface element which receives input of physical position information of said storage device and  
5 operation contents related to the storage device in question, as well as receives operation results of said operation contents from said disk multiplexing mechanism.

12. The disk management mechanism of a fault tolerant computer as set forth in claim 8, further comprising:

first access element which sends said access path information corresponding to said physical position information obtained from said data base to said access path multiplexing mechanism to receive, from said access path multiplexing mechanism which manages said access path information, a virtual access path served for said disk multiplexing mechanism to recognize said storage device, which is a virtual access path obtained by bundling said plurality of access paths into one,

second access element which sends path information composed of said virtual access path received by said first access element and said operation contents to said disk multiplexing mechanism, and

interface element which receives input of physical position information of said storage device and operation contents related to the storage device in question, as well as receives operation results of said operation contents from said disk multiplexing mechanism.

13. A disk management program of a fault tolerant computer having a disk multiplexing mechanism which multiplexes a plurality of storage devices and an access path multiplexing mechanism which sets and multiplexes a plurality of access paths for said plurality of storage devices, which executes,

when a fault such as a failure of said storage device occurs, a function of instructing said disk multiplexing mechanism on restoration operation including cut-off and integration operation of said storage device by inputting physical position information of said storage device and operation contents related to the storage device in question.

14. The disk management program of a fault tolerant computer as set forth in claim 13, which executes the functions of:

sending, to said access path multiplexing mechanism, access path information corresponding to said physical position information obtained from a data base which stores said physical position information of said storage device and said access path information to said storage device so as to correspond with each other for each said storage device and receiving, from said access path multiplexing mechanism which manages said access path information, a virtual access path served for said disk multiplexing mechanism to recognize said storage device, which is a virtual access path obtained by bundling said plurality of access paths into one, and

sending path information composed of said virtual access path received and said operation contents to said disk multiplexing mechanism.

15.       The disk management program of a fault tolerant  
computer as set forth in claim 14, which executes  
          an interface function of receiving input of  
physical position information of said storage device and  
5       operation contents related to the storage device in  
question, as well as receiving operation results of said  
operation contents from said disk multiplexing mechanism.